






**Grade 4 Math: Weeks 31-36 April 22- June 4
2012-2013**

Standards		Lessons	Teacher Notes
Standards with Red Keys are priority standards.			
 4.OA.3 Solve multistep word problems posed with whole numbers and having whole number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. Learning Targets: I can solve multi-step word problems with whole numbers using the four operations and explain the meaning of remainders when appropriate. I can represent a multi-step word problem with whole numbers using an equation with a letter for an unknown quantity. I can check the reasonableness of my answers to multi-step word problems by using mental math and estimation strategies including rounding.	▶	To address the KCAS Standards, the following should be included in instruction: Math Investigations: Unit 8 <ul style="list-style-type: none"> 1.2-1.5 2.1-2.4 2.4A 3.1 3.3-3.6 	
4.OA.5 - Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. Learning Targets: I can create a number pattern that follows a given rule. I can create a shape pattern that follows a given rule. I can identify features of patterns that are not stated in the rule itself.	★	Unit 9 <ul style="list-style-type: none"> 2.1-2.8 3.1-3.5 	
 4.NBT.3 Use place value understanding to round multi-digit whole numbers to any place Learning Target: I can round multi-digit whole numbers to any place.	▶	GAP LESSONS 4.OA.5 High Temperature Patterns that Grow Developing Algebraic Thinking Using Manipulatives	
 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Learning Targets: I can multiply a number with up to 4 digits by a 1 digit number using strategies based on place value and properties of operations. I can multiply two 2 digit numbers using strategies based on place value and properties of operations. I can illustrate and explain multiplication calculations using equations, rectangular arrays and/or area models.	▶	4.NBT.5 Rounding to Nearest Hundred or Thousand Rounding to the Nearest Thousand Multi-Digit Multiplication	
 4.NBT.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. Learning Targets: I can find the whole number quotient of a division problem with up to four digit dividends and one-digit divisors using strategies based on place value, properties of operations, and/or the relationship	▶		

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between multiplication and division. I can illustrate and explain division calculations using equations, rectangular arrays, and/or area models		<table><tr><th colspan="2">Formative Assessment Opportunities</th></tr><tr><td>4.OA.3</td><td></td></tr><tr><td>4.OA.5</td><td></td></tr><tr><td>4.NBT.3</td><td></td></tr><tr><td>4.NBT.5</td><td></td></tr><tr><td>4.NBT.6</td><td></td></tr><tr><td>4.MD.2</td><td></td></tr></table>	Formative Assessment Opportunities		4.OA.3		4.OA.5		4.NBT.3		4.NBT.5		4.NBT.6		4.MD.2		
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<div></div> <p>4.MD.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as a number line diagrams that feature a measurement scale.</p> <p>Learning Targets:</p> <p>I can use the four operations to solve word problems involving intervals of time, money with whole numbers and decimals, simple fractions, liquid volumes, and masses of objects.</p> <p>I can use the four operations to solve word problems involving distances.</p> <p>I can use the four operations to solve word problems that involve converting measurements from larger units to smaller units.</p>	▶	<p><u>Vocabulary:</u></p> <p>Mental math, estimation, unknown quantity, rounding, number pattern, shape pattern, rule, features of patterns, properties of operations, equation, rectangular array, area model, quotient, dividend, divisor, intervals of time, convert</p> <p>http://www.amathsdictionaryforkids.com/</p>															